Nek NRG1200 CT

User's Manual Rel 1.0 GB

DTS
The Lighting Company

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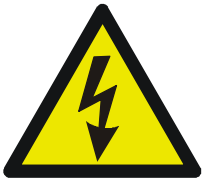
1- SYMBOLS

Graphic symbols used on this manual

THIS SYMBOL INDICATES A HOT SURFACE



THIS SYMBOL INDICATES ELECTRIC SHOCK RISK

THIS SYMBOL INDICATES GENERAL RISK

THIS SYMBOL MEANS “DO NOT PLACE THE UNIT ON INFLAMMABLE SURFACES”

THIS SYMBOL INDICATES THE MINIMUM DISTANCE TO BE KEPT BETWEEN THE DEVICE AND THE LIT OBJECT

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation , use and maintenance.
The device is not for domestic use and must be installed by a qualified electrician or experienced person.
Always disconnect the device from the mains before maintenance.
The device must always be equipped with an efficient ground connection.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 36 months from the date of purchase against manufacturing material defects.

4- TECHNICAL FEATURES

Overview
NICK NRG 1200 CT is the most efficient LED moving head wash light ever produced. The exceptional brightness / consumption ratio makes NICK NRG 1200 CT a truly "green" fixture.
NICK NRG 1200 CT is equipped with 30 high-power Full White LEDs, 5.600 °K.
NICK NRG 1200 CT features three interchangeable lens fittings: Spot, Medium Flood and Wide Flood and ultra-fast silent Pan / Tilt.

Applications:
NICK NRG 1200 CT is suitable for top professional applications, such as tours and special events.

Product codes:

03.LDR008.FW12	NICK NRG 1200 CT Full White *Spot lenses *Black finish
03.LDR008.FW25	NICK NRG 1200 CT Full White *Medium flood lenses *Black finish
03.LDR008.FW45	NICK NRG 1200 CT Full White *Wide flood lenses *Black finish
03.LDR008.FW12WS	NICK NRG 1200 CT Full White *Spot lenses *With Wireless on board *Black finish
03.LDR008.FW25WS	NICK NRG 1200 CT Full White *Medium flood lenses *With Wireless on board *Black finish
03.LDR008.FW45WS	NICK NRG 1200 CT Full White *Wide flood lenses *With Wireless on board *Black finish

LED Technology
***** 30 Full White LEDs (5.600 °K)

Optical group
* Three interchangeable lenses sets: Spot, Medium Flood and Wide Flood
* Uniform projection on surfaces

Interface / Control / Programming
***** Multi-function OLED graphic colour display + 4 soft keys: control / management / monitoring of the main parameters
* Controlled via DMX 512 and RDM standard digital communication protocols
* Wireless ready; Ethernet ready
* Internal operating system updatable via D.T.S. RED BOX interface via "D.T.S. firmware upgrade utility" program on windows based PC

DMX
20 DMX channels

Pan & Tilt
* 16-bit movement resolution
* Ultra-fast movement: Pan 540° (2 sec.); Tilt 270° (1,2 sec.)
* Selectable speed ranges

Power supply
***** Electronic full-range AC 90-260 V 50 / 60 Hz
* Power consumption: 90 V – 3,7 A – 340 W ; 120 V – 2,83 A – 340 W ;
230 V – 1,47 A - 340 W ; 260 V – 1,3 A – 340 W

Connectors
* DMX: 4 XLR connectors (3 poles In / Out; 5 poles In / Out) by Neutrik
* Power supply: POWERCON In / Out connectors by Neutrik

Operating ambient temperature
-10° / 40°

Weight
9,5 Kg

International certifications
Certification CE; LED Class: Class 2 LED product

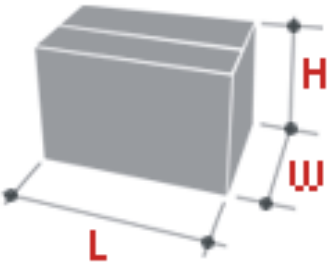
5- TECHNICAL SPECIFICATIONS

Dimensions

Packaging Dimensions (LxWxH)

530 x 430 x 414 mm

Weight: 12 Kg



Unit Dimensions (LxWxH)

369x218x497 mm

Weight: 9,5 Kg

6- ACCESSORIES

As standard

- 1 x POWERCON male cable connector (cod. 0520P014)
- 1 x XLR 5 Pins Male cable connector by Neutrik (cod. 0508B066)
- 1 x XLR 5 Pins Female cable connector by Neutrik (cod. 0508B065)
- “C” Clamp GQUICK with “Fast Lock” connection 1/4 turn (cod. 0521A014)
- User’s manual

Optional (on request)

Flight case

- Professional Flight case for 4 units; compartment for accessories, swivel wheels, cover with hinges with-stay, dishes on cover for piling, 8 handles (2 eachside) (cod. 0521C051.1)

Wireless DMX receiver retrofit

- Wireless DMX Receiver Card with INDOOR IP20 omnidirectional 2dBi antenna included (cod.03.LA.126)

Clamps / safety wires

- “C” Clamp G60 black (max. load 50Kg) (cod. 0521A004)
- “C” Clamp G60 chrome (max. load. 50Kg) (cod. 0521A004.20)
- “C” Clamp GQUICK with “Fast Lock” connection 1/4 turn (max. load. 80Kg) (cod. 0521A014)
- “C” Clamp G100 black / professional (max. load. 200Kg) (cod. 0521A015)
- Omega clamp with “Fast Lock” connection 1⁄4 turn 1 couple (2 pieces) (Cod. 02K00467)
- Safety wire (3mm x 60 cm), ring spring catch, max. capacity load 60Kg (cod. 0521A010)

7- IMPORTANT SAFETY INFORMATION

7.1 Fire prevention:

-Never locate the fixture on any flammable surface.
-Minimum distance from flammable materials: 1 MT.
-Minimum distance from the closest illuminable surface: 0,5 MT.

-Replace any blown or damaged fuses only with those of identical value.
Refer to the wiring diagram if there is any doubt.
-Connect the projector to mains power via a thermal magnetic circuit breaker.

7.2 Prevention of electric shock:

-High voltage is present inside the unit. Unplug the unit prior to performing any function which involves touching the inside of the moving head.
-The level of technology inherent in the NICK NRG 1200 CT requires the assistance of specialised personnel for all servicing.
Please refer to an authorised D.T.S. service centre.
-A good earth connection is essential for proper functioning of the projector.
-Never connect the unit without proper earth connection.
-The fixture should be located in places with a good air ventilation.

7.3 Safety:

-The projector should always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit.
-Always use a second safety cable to sustain the weight of the unit in case of the failure of the main fixing point.
-The external surface of the unit, at various points, may exceed 70°C. Never handle the unit until at least 10 minutes have elapsed since the projector was turned off.
-Never install the fixture in an enclosed area lacking sufficient air flow.
The ambient temperature should not exceed 40°C.

7.4 Level of protection against the penetration of solid and liquid objects:

-The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP 20.

8- VOLTAGE AND FREQUENCY

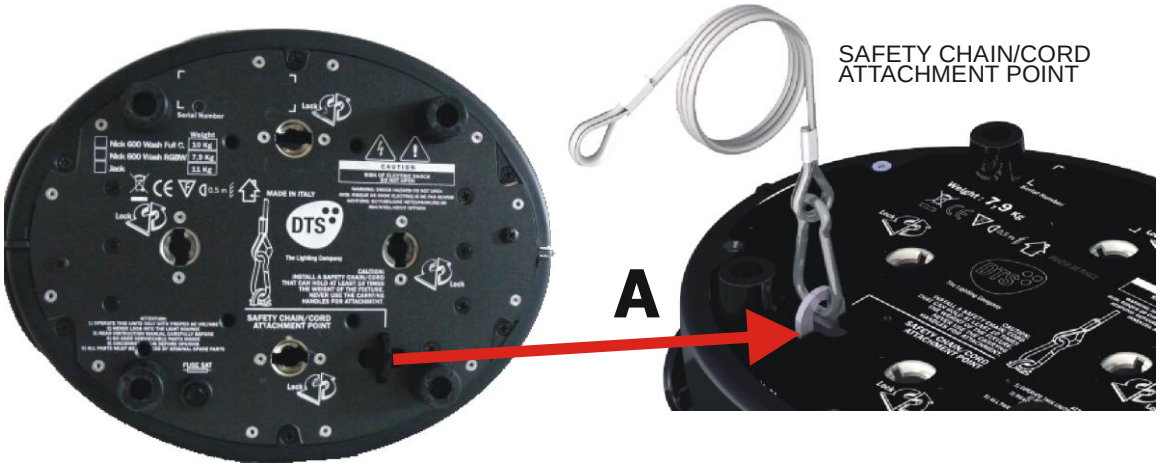
The NICK NRG 1200 CT can operate at 90-260 VOLT 50 or 60 Hz.

9- INSTALLATION

NICK NRG 1200 CT may be either floor or ceiling mounted.
For floor mounting installations, the NICK NRG 1200 CT is supplied with four rubber mounting feet on the base.
For ceiling mounted installations, we reccomend the use of appropriate clamps to fix the unit to the mounting surface.
The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hung it. The structure should also be sufficiently rigid so as not to move or shake whilst the NICK NRG 1200 CT is moving.
Four 1/4 turn Fast Locks connections placed in the base of the unit allow to hang the NICK NRG 1200 CT by using the Fast Lock “C” clamps provided in the box.

9.1- Safety cable

We recommend the use of a safety cable or chain connected to the NICK NRG 1200 CT and to the suspension truss in order to avoid the fixture accidentally falling should the main fixing point fail.
Make sure that the iron cable or chain can bear the weight of the entire unit.
You may attach the safety chain/cord to the attachment point (A) located on the base of the fixture, as shown in the picture below.



9.2 Protection against liquids

The projector contains electric and electronic components which should under no circumstances come into contact with oil, water or any other liquid.
The proper unit functioning would be compromised should this occur.

9.3- Movement

Ultra-fast movement: Pan 540° (2,0 sec.); Tilt 270° (1,2 sec.)

WARNING

Do not place any object in the path of the projector's movement

9.4- Risk of fire

Each fixture produces heat and must be installed in a well-ventilated place.
The minimum recommended distance from flammable material is 1 MT.

Minimum distance from the object being illuminated is 0,5 MT.

9.5- Forced ventilation

You will note, on inspection, that the unit features various air inlets and cooling fans. These should, under no circumstances, be blocked or obstructed whilst the projector is in operation. Doing so could cause the fixture to seriously overheat thereby compromising its proper operation.

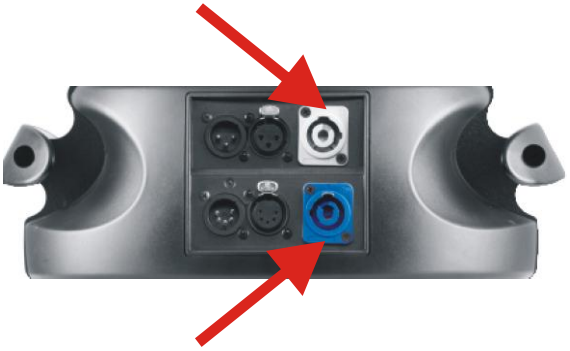
9.6- Ambient temperature

The projector should never be installed in places that lack a constant air flow.
The ambient temperature should NOT exceed 40°C.

10- MAINS CONNECTION

NICK NRG 1200 CT operate at 90-260 VOLT 50-60 Hz.
Prior to connecting the unit to your mains supply, ensure that the model in your possession correctly matches the mains supply available.
For connection purposes, ensure that your plug is capable of supporting 2 amps at 230V, or 5 amps at 90 V.
Strict adherence to regulatory norms is strongly recommended.

MAINS AC OUTPUT 90 – 260 V 50 / 60 Hz (16A Max)
MAX 10 NICK NRG 1200 UNITS @ 230V
MAX 5 NICK NRG 1200 UNITS @ 120V



Cod. 03.LDR008.FW12
Cod. 03.LDR008.FW25
Cod. 03.LDR008.FW45

MAINS AC INPUT 90 – 260 V 50 / 60 Hz

Wireless DMX Receiver Retrofit (Cod. 03.LA.126)

Cod. 03.LDR008.FW12WS
Cod. 03.LDR008.FW25WS
Cod. 03.LDR008.FW45WS

FUSE 5A T 5X20

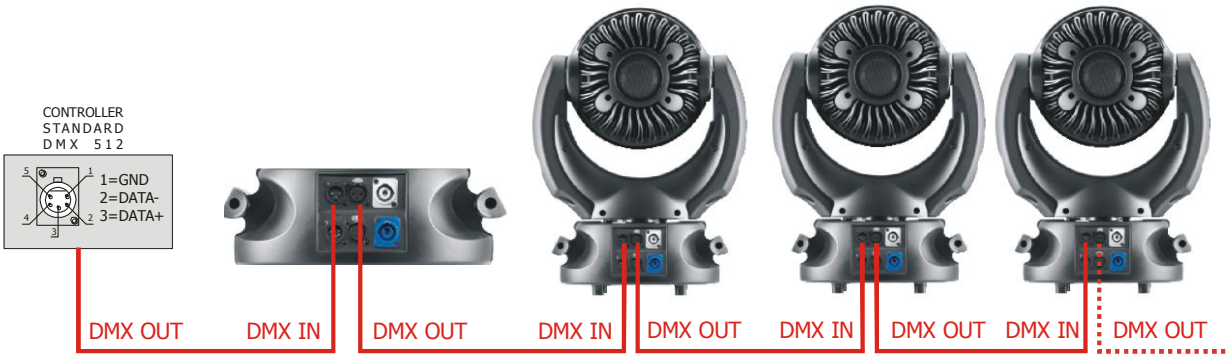
10.1- Protection

The use of a thermal magnetic circuit breaker is recommended for each NICK NRG 1200 CT.

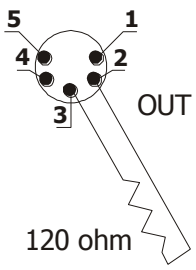
11- DMX SIGNAL CONNECTION

The unit operates using the digital DMX 512 (1990) signal.
Connection between the mixer and the projector or between projectors must be carried out using a two pair screened ø 0.5 mm cable and a XLR 5 or 3 pins connector.
Ensure that the conductors do not touch each other.
Do not connect the cable ground to the XLR chassy.
The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first projector to the DMX IN plug of the second one.
This way, all the projectors are cascade connected.
NB. If the display showing the DMX address flashes, then one of the following errors has occurred:

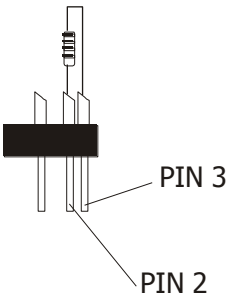
- DMX signal not present
- DMX address not valid
- DMX reception problem



For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.
The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor between pin 2 and 3.
The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



11.1-DMX Addresses

NICK NRG 1200 CT can be controlled with 20 DMX channels.
In order to use the unit in 20 channels, set the following addresses on the mixer:

Projector 1	A001	
Projector 2	A021	If you want to select the next projector, just add “20”
Projector 3	A041	
…..	A….	
projector 6	A101	

11.2-Selecting the DMX address

1) Press the UP-DOWN key until you reach the required DMX channel. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now setted to the new DMX address.

TRICKS:
if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

12- FIRMWARE UPDATING

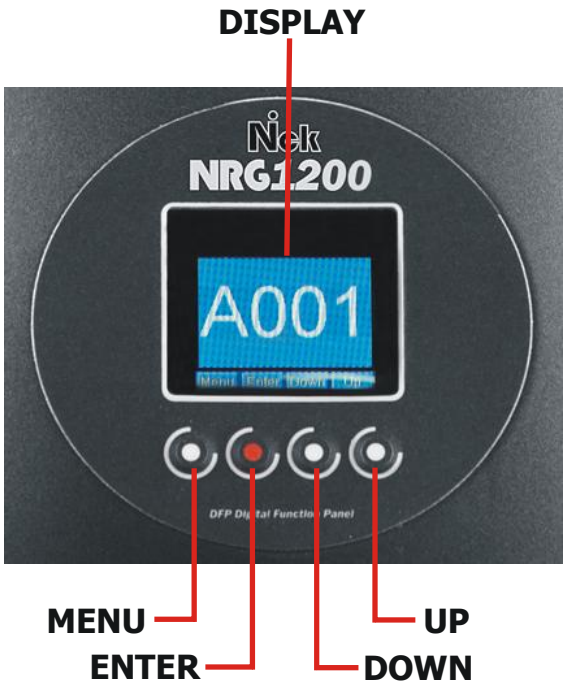
Warning:
This procedure require a base knowledge of computer applications and Windows Hyperterminal program. **Please refer to an authorised D.T.S. service centre.**

To update the software version of the NICK NRG 1200 you need:
D.T.S. RED BOX interface (D.T.S. Code: 03.LA.008).
USB-DMX Driver for the D.T.S. RED BOX interface.
D.T.S. Firmware upgrade utility program.
(The driver and the installation procedure are available in our web site www.dts-lighting.it)

Updating the software version.
Please follow the procedure below to perform the update:

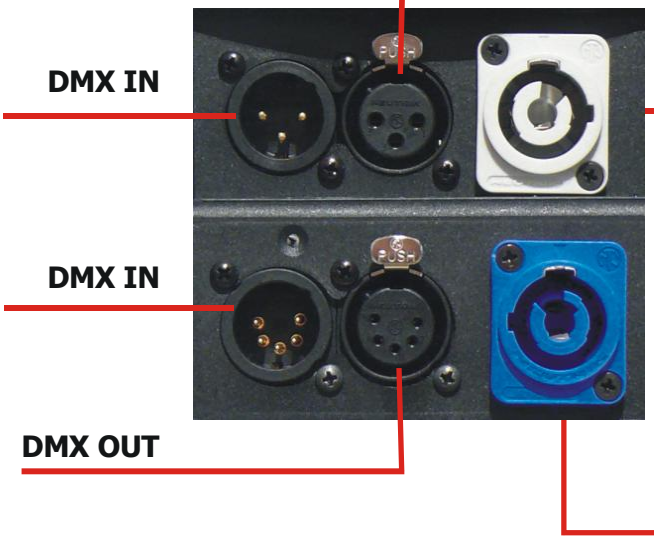
1. Install the D.T.S. RED BOX USB-DMX driver on the PC you will use to update the unit software.
2. Connect the D.T.S. RED BOX interface to the PC by using a USB cable.
3. Connect the D.T.S. RED BOX interface to the fixture by using a DMX cable.
4. Download the new software version into the unit by using D.T.S. Firmware upgrade utility program.

13- DISPLAY FUNCTIONS



WIRELESS DMX
RECEIVER
RETROFIT
03.LA.126

Cod. 03.LDR008.FW12WS
Cod. 03.LDR008.FW25WS
Cod. 03.LDR008.FW45WS



Cod. 03.LDR008.FW12
Cod. 03.LDR008.FW25
Cod. 03.LDR008.FW45

DISPLAY FUNCTIONS

The NICK NRG 1200 CT display panel shows all the available functions . Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 used to control it. Carefully follow the instructions below before carrying out any variations or selections.
NOTE: the symbol ☞ shows which key has to be pushed to obtain the desired function.

13- DISPLAY FUNCTIONS

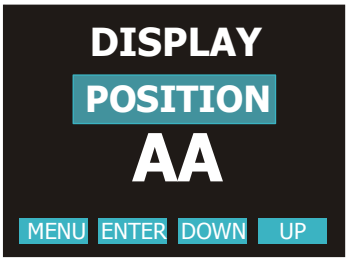
Software version 1.10

Menu Up-Down Display ENTER Up-Down

DISPLAY POSITION / STAND BY

Display Position:
Reverses display's reading depending on the mounting position
(on the ground or suspended).

Display Standby:
To turn off the display (after 5 seconds) or leave it always on.



Display Position
ON THE GROUND (Default)
SUSPENDED

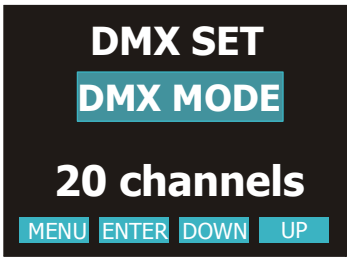
ENTER

ENTER

Display Standby
OFF = Display Standby disabled (Default)
ON = Display goes OFF after 5 seconds

Menu Up-Down DMX Set ENTER Up-Down

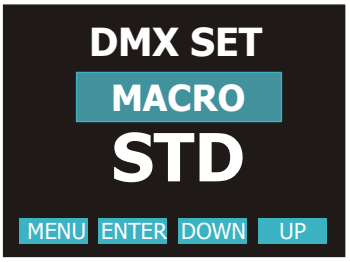
DMX MODE / MACRO
DMX Mode
20 channels



DMX Mode
20 channels

ENTER

MACRO
(Colour MACROS active only on NICK NRG 1200 FULLCOLOUR,
NICK NRG 1200 CT will show only different white light intensity)
Macro Mode:
STD = Standard (Default)
EXT = Extended; enable rainbow effects on Macro channel (DMX ch 16)



MACRO (Active only on NICK NRG 1200 FULLCOLOUR
NICK NRG 1200 CT will show only different white light intensity)
STD = Standard mode enabled (Default)
EXT = Extended; enable rainbow effects on Macro channel
(DMX ch 16)

13- DISPLAY FUNCTIONS

Menu Up-Down LED ENTER Up-Down

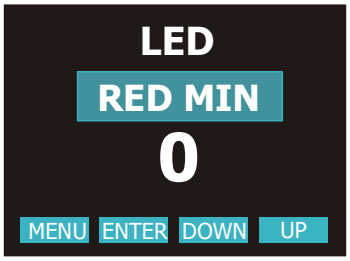
NICK NRG 1200 FULLCOLOUR:
RGBA MINIMUM VALUES
This menu allow to select the minimum levels for Red, Green, Blue and Amber/White

NICK NRG 1200 CT:
4 x WHITE MINIMUM VALUES
This menu allow to select the minimum levels for Red = White 1, Green = White 2, Blue = White 3 and Amber/White = White 4

NICK NRG 1200 FULLCOLOUR:
RGBA MAXIMUM VALUES
This menu allow to select the maximum levels for Red, Green, Blue and Amber/White
These settings have priority on Master Dimmer (DMX channel 9)

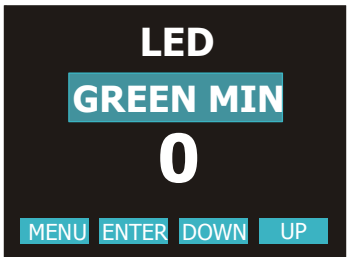
NICK NRG 1200 CT:
4 x WHITE MAXIMUM VALUES
This menu allow to select the maximum levels for Red = White 1, Green = White 2, Blue = White 3 and Amber/White = White 4
These settings have priority on Master Dimmer (DMX channel 9)

SMOOTH VALUE
This menu allow to select the value of the delay (in milliseconds) for RGBA (NICK NRG 1200 FULLCOLOUR) or WHITE (NICK NRG 1200 CT) and Dimmer channels reaction to DMX or program variation.
4 = 25 ms delay (Fast response)
20 = 250 ms delay (Slow response)

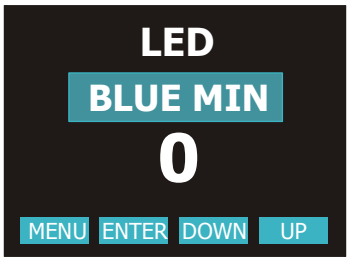


ENTER

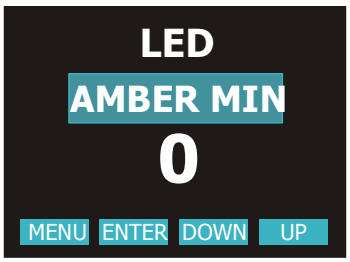
NICK NRG 1200 FULLCOLOUR / CT:
RED / WHITE 1
Min default = 0
RED / WHITE 1
Max default = 100



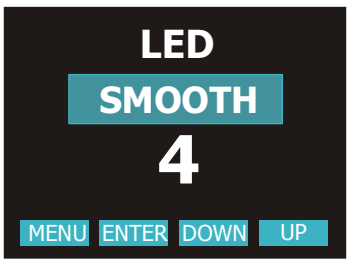
NICK NRG 1200 FULLCOLOUR / CT:
GREEN / WHITE 2
Min default = 0
GREEN / WHITE 2
Max default = 100



NICK NRG 1200 FULLCOLOUR / CT:
BLUE / WHITE 3
Min default = 0
BLUE / WHITE 3
Max default = 100



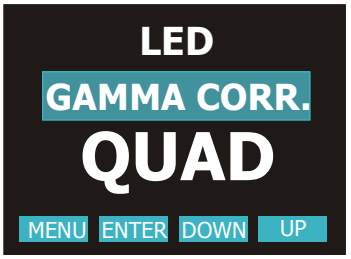
NICK NRG 1200 FULLCOLOUR / CT:
AMBER / WHITE 4
Min default = 0
AMBER / WHITE 4
Max default = 100



SMOOTH
Range = Off – 20
Default = 4

13- DISPLAY FUNCTIONS

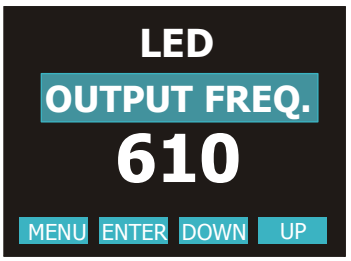
GAMMA CORRECTION
This menu allow to select between Linear current output or Quadratic current output for LEDs
Default = Quadratic



GAMMA CORRECTION
Linear = Linear current output
Quadratic = Linear light output
(default)

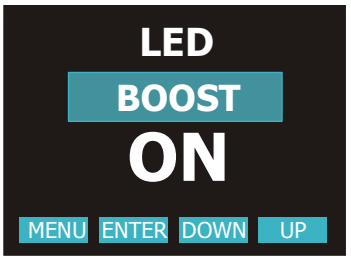
ENTER

OUTPUT FREQUENCY
This menu allow to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings



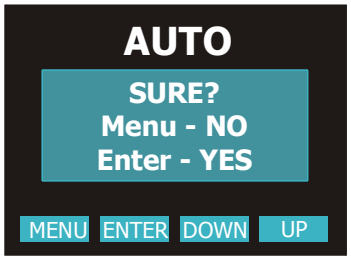
OUTPUT FREQUENCY
Range = 610 Hz – 10KHz
Default = 610 Hz

BOOST DRIVING
This menu allow to increase the LED's current from 350 mA to 500 mA



BOOST
With BOOST active, the LEDs current is set to 500 Ma (30% more gain)
Default = Enabled

Menu Up-Down AUTO ENTER Up-Down



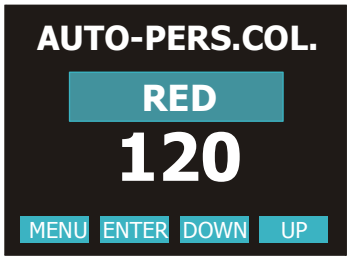
ENTER

By setting all the units connected to the MASTER to DMX address 1, them will be synchronized with the Master unit following the chase selected on it including TIME, WAIT, Pan and Tilt position of the MASTER unit.

AUTOMATIC MODE
Automatic demo games without DMX controller

(Colour MACROS active only on NICK NRG 1200 FULLCOLOUR, NICK NRG 1200 CT will show only different white light intensity)

STEP 01/16
Chase with 16 steps previously created in REC MODE
Speed time, Wait time, Dimmer, Pan and Tilt values selectable by user.



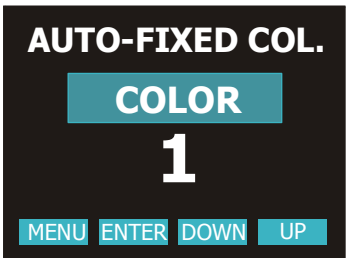
PERSONAL COLOURS
RGBA, Dimmer, Shutter, Pan and Tilt values selectable by user.

RAINBOW
Rainbow colours effect.
Speed time, Dimmer, Shutter, Pan and Tilt values selectable by user.

13- DISPLAY FUNCTIONS

FIXED COLOURS
Sixteen Colour Macros as on “MACRO” channel.
Dimmer, Shutter, Pan and Tilt values selectable by user.

WHITE MACROS (Active only on NICK NRG 1200 FULLCOLOUR)
Sixteen macros for White colour (active only on NICK NRG 1200 FULLCOLOUR);
White Macros for NICK NRG 1200 CT: Different white light Intensity.
Dimmer, Shutter, Pan and Tilt values selectable by user.

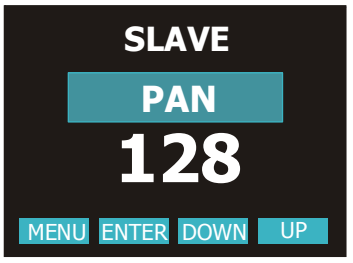


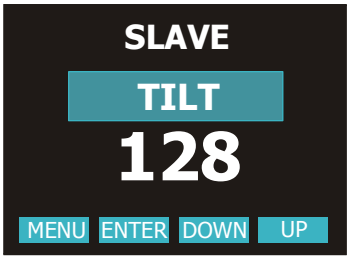
By setting all the units connected to the MASTER to DMX address 1, them will be synchronized with the Master unit following the chase selected on it including TIME, WAIT, Pan and Tilt position of the MASTER unit.

ENTER

Menu Up-Down SLAVE ENTER Up-Down

SLAVE MODE SETTING
This menu allow to set the NICK NRG 1200 CT as slave unit.
<u>DMX signal must be present from MASTER unit (set in AUTO MODE) in order to ran the units in SLAVE mode</u>.
By setting all the SLAVE units connected to the MASTER, to DMX address 1, them will be synchronized with the Master unit following the chase selected on it, but running their own Pan and Tilt position.





The SLAVE unit receive DMX signal from the MASTER unit.
By setting all the SLAVE units connected to the MASTER, to DMX address 1, them will be synchronized with the Master unit following the chase selected on it, but running their own Pan and Tilt position.

ENTER

13- DISPLAY FUNCTIONS

Menu Up-Down WIRELESS ENTER Up-Down

WIRELESS DMX SYSTEM DISABLED (Default) ENTER

WIRELESS DMX
Wieless DMX enabled / disabled. By activating WDMX MODE, it will be possible to control NICK NRG 1200 CT via D.T.S. ANTENNA Wireless DMX Transmitter (cod. 03.E1271).

Wireless DMX Receiver Kit (Cod. 03.LA.126) on NICK NRG 1200 CT is available on request.

WIRELESS DMX SYSTEM ENABLED ENTER

UNLINK = LOG OUT ENTER

Logging on NICK NRG 1200 CT (WIRELESS DMX must be enabled on the unit).

To log on the NICK NRG 1200 CT in the WIRELESS system simply press and quickly release the function button on the transmitter .
The transmitter will start flashing rapidly red/green scanning for new free receivers / NICK NRG 1200 CT units. When a NICK NRG 1200 CT logs on to the transmitter the LINK green light on transmitter starts to flash rapidly.
After approximately 10 seconds the transmitter will jump back to normal mode and continue transmitting data. The NICK NRG 1200 CT now try to synchronize to the transmitter.
When synchronized to the transmitter, 2 different modes are possible:
1. Antenna transmitter has detected and transmits a DMX signal, in this mode a solid green light is seen on the transmitter and solid display is seen on NICK NRG 1200 CT.
2. No DMX signal connected, the Antenna transmitter will flash red/green; display blinking on NICK NRG 1200 CT.

To log off NICK NRG 1200 CT from a transmitter simply select UNLINK function under WIRELESS DMX MENU and press ENTER.
When NICK NRG 1200 CT is logged off the display is blinking, meaning its available for log in on a new transmitter.

Logging out a NICK NRG 1200 CT.
Select UNLINK function under WIRELESS DMX MENU and press ENTER.
When NICK NRG 1200 CT is logged off the display is blinking, meaning its available for log in on a new transmitter.

Logging out all NICK NRG 1200 CT linked to a transmitter.
Press and hold the function button of the transmitter for about 3 seconds. When the display is blinking on NICK NRG 1200 CT, it mean that the units are logged out.

Transmitter, Status LED.
Flashing red/green, no dmx connected.
Solid green, dmx signal detected and transmitted.
Fast flashing red/green, log in mode (every free NICK NRG 1200 CT unit, not logged in to any other transmitter, will be logged on)

NICK NRG 1200 CT Status.
Display blinking, not logged on to a transmitter (free).
Solid display, logged on to a transmitter and receiving dmx data.

13- DISPLAY FUNCTIONS

Menu Up-Down EMERGENCY ENTER Up-Down

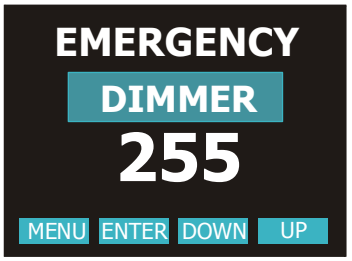
EMERGENCY
Emergency operating mode.
By setting Emergency mode, it will be possible to select one of the 16 pre-programmed WHITE cues (active only on NICK NRG 1200 FULLCOLOUR;
NICK NRG 1200 CT will show only different white light intensity) that will then ran if DMX signal is missing or not available.
Useful for Emergency EXIT illumination on public areas.
Dimmer level and Pan&Tilt values selectable by user.

EMERGENCY
Disabled = Default

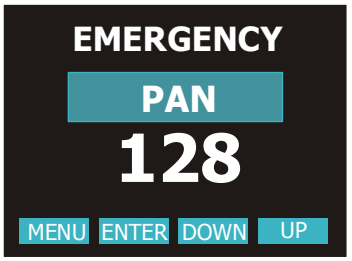
ENTER

EMERGENCY
Enabled

WHITE (1-16)
Default = WHITE 1



DIMMER
Default = 255



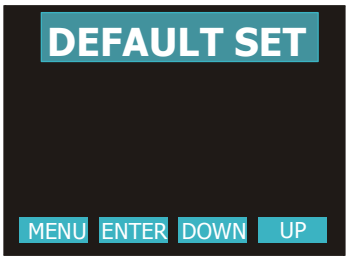
PAN
Default = 128

TILT
Default = 128

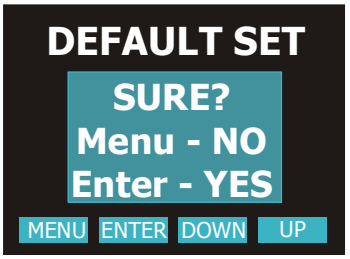
13- DISPLAY FUNCTIONS

Menu Up-Down DEFAULT SET ENTER Up-Down

DEFAULT SETTINGS
To restore default settings

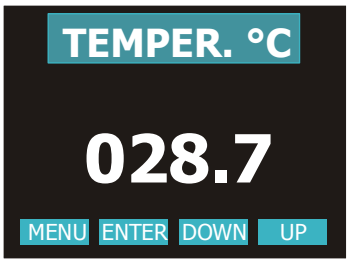


ENTER



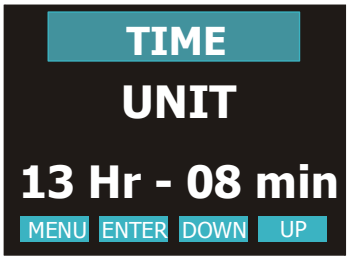
Menu Up-Down TEMPER. °C ENTER

TEMPEROTURE
Unit temperature

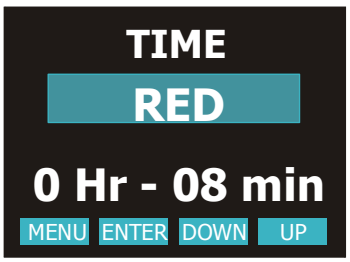


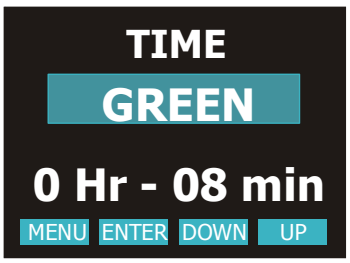
Menu Up-Down TIME ENTER Up-Down

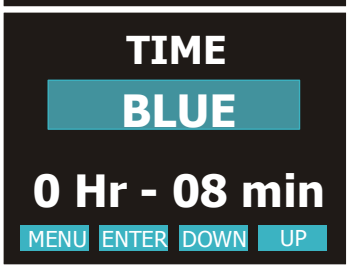
LIFE TIME
This menu show the total UNIT life time and the RGBA (NICK NRG 1200 FULLCOLOUR) or the
R = WHITE 1, G = WHITE 2,
B = WHITE 3, A = WHITE 4
(NICK NRG 1200 CT) life time



ENTER







13- DISPLAY FUNCTIONS

Menu Up-Down SYSTEM ENTER Up-Down

PAN INVERSION / TILT INVERSION /
PAN SPEED / TILT SPEED /
FAN MAX SPEED / RESET BY DMX /
MOTORS FIRMWARE UPGRADE.

PAN INVERSION
This menu allows to set the Pan movement. Normal or Reversed.

TILT INVERTION
This menu allows to set the Tilt movement. Normal or Reversed.

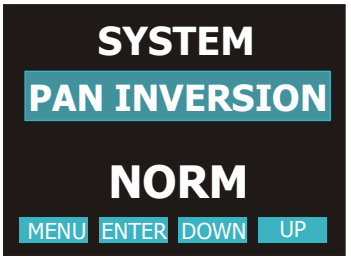
PAN SPEED
Pan Speed control (1-8)

TILT SPEED
Tilt Speed control (1-8)

FAN MAX SPEED
This menu' allow to select the internal fans speed.

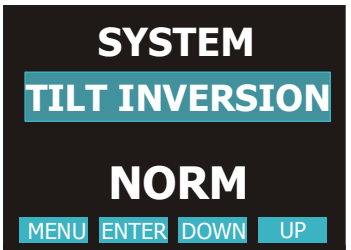
RESET BY DMX
This menu' allow to enable / disable the Motors reset control (Pan&Tilt) via DMX.

MOTORS FIRMWARE UPGRADE
This menu' allow to upgrade the firmware for Pan&Tilt circuit boards.

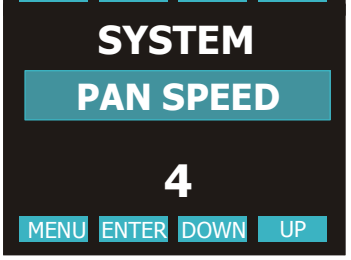


PAN INVERSION
Default = NORM

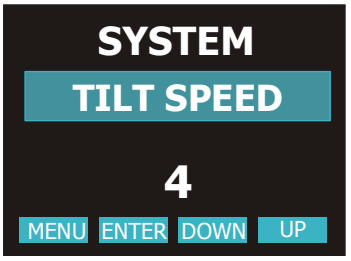
ENTER



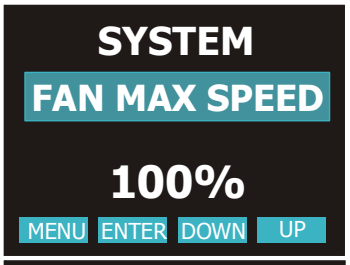
TILT INVERSION
Default = NORM



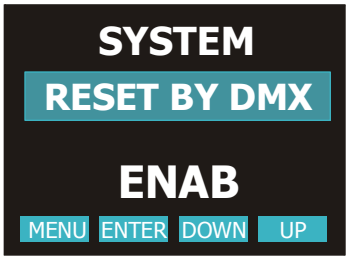
PAN SPEED CONTROL
Default = 4



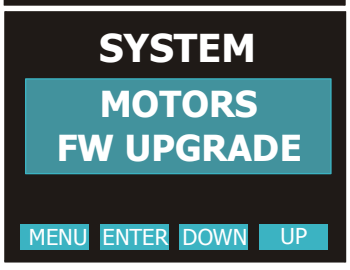
TILT SPEED CONTROL
Default = 4



FAN MAX SPEED
50% - 100%
Default = 100%



RESET BY DMX
Enable: Motors reset enabled via DMX (Default)
Disabled: Motors reset disabled via DMX
Now: Instant motors reset.



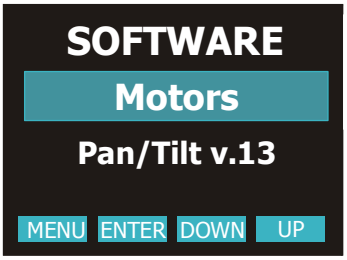
MOTORS FIRMWARE UPGRADE
Pan&Tilt circuit boards firmware upgrade.

13- DISPLAY FUNCTIONS

Menu Up-Down SOFTWARE ENTER Up-Down

SOFTWARE
LEDs circuit board software,
MOTORS circuit boards software
(Pan&Tilt)

LEDs CIRCUIT BOARD SOFTWARE ENTER



MOTORS CIRCUIT BOARDS SOFTWARE
(PAN&TILT)

14- PERIODIC CLEANING

Front lenses Glass

The dust can reduce the luminous output substantially.
Regularly clean the front lenses glass using a soft cotton cloth, dampened with a specialist glasses cleaning solution.

Fans and air passages

The fans and air passages must be cleaned approximately every 6 weeks.
This periodic cleaning will depend of course, on the conditions in which the projector is operating.
Suitable instruments for performing this type of maintenance are a brush and a common vacuum cleaner or an air compressor.
If necessary, clean the fans and air passages more frequently.

15- PERIODIC CONTROLS

Mechanical parts

Periodically check all mechanical parts and the gaskets, replacing them if necessary.

Electrical components

Check all electrical components for correct earthing and proper attachment of all connectors, refastening if necessary.

Attention: Disconnect mains power prior to removing the projector housing.

Fuse replacement

Locate the fuse, which protect the electronics, in the base of the NICK NRG 1200 CT. Using a multimeter, test the condition of the fuse, replacing it with one of equivalent type if necessary.

Attention: Disconnect mains power prior to removing the projector housing.

16- DMX PROTOCOL

20 CHANNELS MODE

1 PAN msb 540°
2 PAN lsb
3 TILT msb 270°
4 TILT lsb
5 SPEED MOVEMENT
6 NO FUNCTION
7 NO FUNCTION
8 SHUTTER
9 DIMMER
10 RED = WHITE 1
11 GREEN = WHITE 2
12 BLUE = WHITE 3
13 WHITE = WHITE 4
14 WHITE PRE-PROGRAMMED (Not Active)
15 CTC
16 MACRO (Not Active)
17 FUNCTION (Recall, Create and Store the Custom white)
18 NO FUNCTION
19 NO FUNCTION
20 RESET

DMX CHANNEL	1	Parameter: **PAN msb**

DMX CHANNEL	2	Parameter: **PAN lsb**

DMX CHANNEL	3	Parameter: **TILT msb**

DMX CHANNEL	4	Parameter: **TILT lsb**

DMX CHANNEL	5	Parameter: **SPEED MOVEMENT**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-010					**Standard**
011-025					**Fast movement**
026-127					**Vector mode from fast to slow**
128-247					**Variable time reaction to DMX signal (fast to slow)**
248-255					**Slow reaction time to DMX signal**

DMX CHANNEL	6	Parameter: **NO FUNCTION**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					**NO FUNCTION**

DMX CHANNEL	7	Parameter: **NO FUNCTION**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					**NO FUNCTION**

DMX CHANNEL	8	Parameter: **SHUTTER**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-009					**Black-out**
010-019					**Open**
020-029					**Black-out**
030-119					**Strobe (from 3.27 s to 30 ms)**
120-149					**Pulse up (from 42.6 s to 120 ms)**
150-179					**Pulse down (from 42.6 s to 120 ms)**
180-204					**Random strobe (Dimmer, Red, Green, Blue, Amber channels active)**
205-229					**Full independent Random Strobe (Dimmer, Red, Green, Blue, Amber channels disabled)**
230-255					**Open**

DMX CHANNEL	9	Parameter: **DIMMER**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-007					**Black-out**
008-255					**Proportional dimmer**

DMX CHANNEL	10	Parameter: **RED = WHITE 1**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	11	Parameter: **GREEN = WHITE 2**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	12	Parameter: **BLUE = WHITE 3**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	13	Parameter: **WHITE = WHITE 4**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					**Proportional colour**

DMX CHANNEL	14	Parameter: **WHITE PRE-PROGRAMMED (Not Active on NICK NRG 1200 CT)**

NICK NRG 1200 CT will show only different white light intensity

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-055	**23**				**No Function**
056-105	**80**				**Full (Red-Green-Blue at Full)**
106-155	**130**				**White DTS**
156-205	**180**				**Custom White Create (RGB levels selectable by DMX)**
206-255	**230**				**White CTC (Channel 15 CTC enabled)**

DMX CHANNEL	15	Parameter: **CTC (Colour Temperature Correction)**

NICK NRG 1200 CT will show only different white light intensity

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
IF CHANNEL 14 WHITE PREPROGRAMMED = WHITE CTC (DMX range value 206 – 255)					
000-255					**Linear control temperature correction. NICK NRG 1200 FULLCOLOR: 0 = 2700°K / 255 = 8000°K. NICK NRG 1200 CT FULLWHITE:** different white light intensity

DMX CHANNEL	16	Parameter: **MACRO (NICK NRG 1200 CT WILL SHOW ONLY DIFFERENT WHITE LIGHT INTENSITY)**			
IF: Menu Up-Down **DMX SET** ENTER Up-Down **MACRO** ENTER Up-Down **STD** ENTER **(Please refer to page 15 for details)**					
000-014					**No Function**
015-029					**Macro 1**
030-044					**Macro 2**
045-059					**Macro 3**
060-074					**Macro 4**
075-089					**Macro 5**
090-104					**Macro 6**
105-119					**Macro 7**
120-134					**Macro 8**
135-149					**Macro 9**
150-164					**Macro 10**
165-179					**Macro 11**
180-194					**Macro 12**
195-209					**Macro 13**
210-225					**Macro 14**
226-239					**Macro 15**
240-255					**Macro 16**

DMX CHANNEL	16	Parameter: **MACRO (NICK NRG 1200 CT WILL SHOW ONLY DIFFERENT WHITE LIGHT INTENSITY)**			
IF: Menu Up-Down **DMX SET** ENTER Up-Down **MACRO** ENTER Up-Down **EXT** ENTER **(Please refer to page 15 for details)**					
000-014					**No Function**
015-024					**Macro 1**
025-034					**Macro 2**
035-044					**Macro 3**
045-054					**Macro 4**
055-064					**Macro 5**
065-074					**Macro 6**
075-084					**Macro 7**
085-094					**Macro 8**
095-104					**Macro 9**
105-114					**Macro 10**
115-124					**Macro 11**
125-134					**Macro 12**
135-144					**Macro 13**
145-154					**Macro 14**
155-164					**Macro 15**
165-174					**Macro 16**
175-184					**Rainbow Speed 1 (6 Sec.)**
185-194					**Rainbow Speed 2 (15 Sec.)**
195-204					**Rainbow Speed 3 (30 Sec.)**
205-214					**Rainbow Speed 4 (45 Sec.)**
215-224					**Rainbow Speed 5 (60 Sec.)**
225-234					**Rainbow Speed 6 (120 Sec.)**
235-244					**Rainbow Speed 7 (150 Sec.)**
245-255					**Rainbow Speed 8 (180 Sec.)**

DMX CHANNEL	17	Parameter: **FUNCTIONS (Recall, Create and Store the Custom white)**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
IF CHANNEL 14 WHITE PREPROGRAMMED = DMX range value 156 – 205)					
000-079					**Custom White Recall**
080-160					**Custom White Create (Enable Custom White Creation)**
161-255					**Custom White Store (Store the Custom White created)**

DMX CHANNEL	18	Parameter: **NO FUNCTION**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					**NO FUNCTION**

DMX CHANNEL	19	Parameter: **NO FUNCTION**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					**NO FUNCTION**

DMX CHANNEL	20	Parameter: **RESET**

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-015					**No Effect**
016-255					**Total Reset (activation after 3 sec.)**

NOTES

NOTES

NOTES

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MADE IN ITALY CE

DTS

The Lighting Company

ISO 9001:2008
D.T.S. quality system
is certified to the
ISO 9001:2008 standard

PROUDLY MADE IN ITALY

D.T.S. products are designed
and manufactured at the D.T.S.
plants in italy

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